eSourceBook
Your source for Ford product info

2023 F-150 Lightning

Specs

Key product specifications include vehicle dimensions and capacities, detailed powertrain information, transmission gear ratios and more.

2023 F-150 Lightning > Specs

Dimensions/Weights/Capacities

Accessory Reserve Capacity (ARC) Calculation
Base Curb Weight
Gross Axle Weight
Gross Axle Weight Rating (GAWR)
Gross Vehicle Weight Rating (GVWR)
Interior and Front Trunk Volume
Maximum Payload Weight Rating
Maximum Payload Weight Ratings
Option Weights
SuperCrew Dimensions
Tongue Weight
Trailer Weight
Truck “Nominal Tonnage”

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Cargo Box (ft.)	5.5
Wheelbase (in.)	145.5

Code	Description (in.)	
A	Head Room (Front)	40.8
B	Head Room (Rear)	40.4
C	Inside Length[1] (at floor)	67.1
D	Leg Room (Front; max.)	43.9
	Leg Room (Rear)	43.6
E	Open Tailgate to Ground (Empty)[2]	36.7
F	Inside Height[1]	21.4
G	Front Overhang	37.8
	Rear Overhang	49.4
H	Overall Length	232.7
	Front Bumper to Back of Cab	155.9
I	Width (Max.; excluding mirrors)	80.0
J	Shoulder Room (Front)	66.7
	Shoulder Room (Rear)	66.0
K	Hip Room (Front)	62.5
	Hip Room (Rear)	62.6
L	Width Between Wheelhouses[1]	50.6
M	Max. Load Width[1] (at floor)	60.3
N	Cab Height (Empty)[2]	78.3
O	Ground Clearance	8.4
	Track Width — Front	68.1
	Track Width — Rear	68.3

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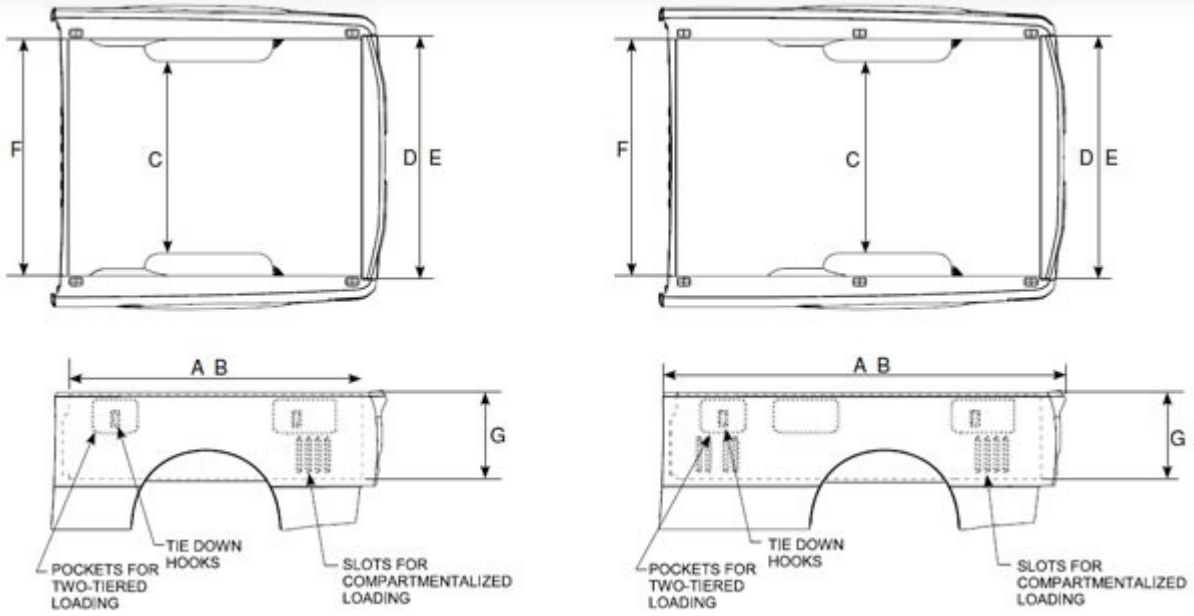

Box Size (ft.)		5.5
Cargo Volume (cu. ft.)		52.8
Code	Description (in.)	
A	Cargo Box Inside Length @ Floor	67.1
B	Cargo Box Length @ Top	65.4
C	Cargo Width @ Wheelhouse	50.6
D	Rear Opening Width @ Floor	60.3
E	Rear Opening Width @ Top	60.3
F	Cargo Body Maximum Inside Width	65.2
G	Cargo Body Height with Molding	21.4

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2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Accessory Reserve Capacity (ARC) Calculation

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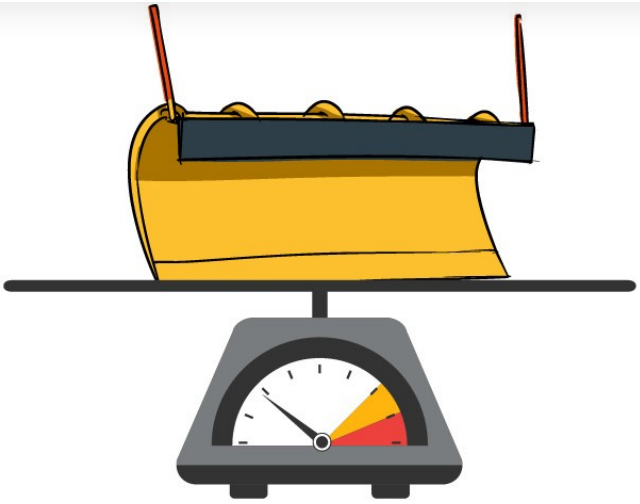
This section provides the information needed to calculate the effect that vehicle options have on the payload capacity of Ford commercial vehicles.

This information is useful when the plan is to add aftermarket accessories or haul cargo at or near the vehicle's maximum capacity.

This section includes charts for each series, listing the maximum allowable weights for each GVWR.



ACCESSORY RESERVE CAPACITY

You can help prospective buyers estimate the total weight of accessories, equipment and modifications that may be added to the completed vehicle.

Ford vehicles are certified for compliance with the following FMVSS (Federal Motor Vehicle Safety Standards) or CMVSS (Canadian Motor Vehicle Safety Standards):[(1)]

- 204 — Steering Column Rearward Displacement
- 208 — Occupant Crash Protection
- 212 — Windshield Mounting
- 219 — Windshield Zone Intrusion
- 301 — Fuel System Integrity
- 303 — CNG Fuel System Integrity (Canadian Standard 301.2)

The total added accessory weight must not exceed the allowable weight shown in the tables. Awareness is critical if the vehicle is going to be modified or have accessories installed.

If the modification or installation of accessories or equipment causes the

In this section, each vehicle has a worksheet that addresses Total Accessory Reserve Capacity only. It does not consider Front Axle Accessory Reserve Capacity and does not include DSO option weights in the calculations.

To approximate the amount of accessory equipment or modification weight that can be added to a Ford light truck without exceeding the test vehicle weight, calculate an estimated Total Accessory Reserve Capacity as follows:

1. Determine the "Total Actual Regular Production Option Content Weight" of the desired regular production options from the corresponding Accessory Reserve Capacity Calculation/Worksheet on the following page
2. Subtract the "Total Actual Regular Production Option Content Weight" from the "Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)" for the appropriate model. The difference is the estimated "Total Accessory Reserve Capacity"

Maximum Allowable Weight (Regular Production Options & Aftermarket Equipment)

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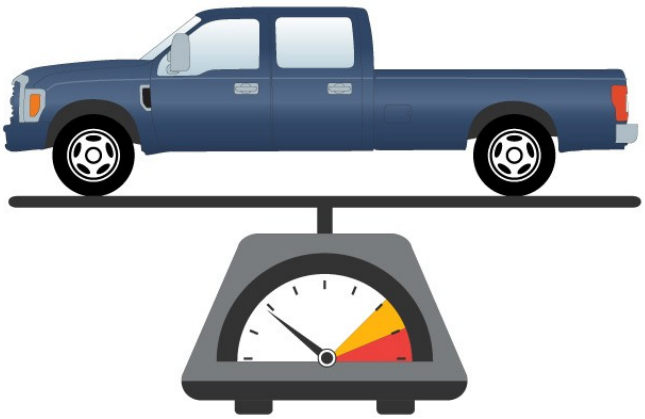
2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Base Curb Weight

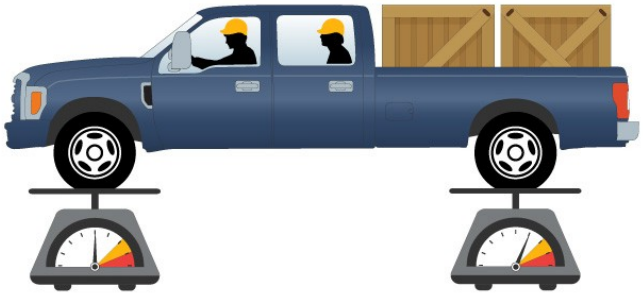
- The weight of the vehicle including standard equipment, oil, lubricants and a full tank of fuel. It does not include the weight of driver, passengers, cargo or any optional or aftermarket equipment
- **Base curb weights for each engine/standard equipment transmission combination are listed in the Weight Ratings pages of each vehicle section (see Maximum Payload Weight Ratings for reference)**
- Actual Regular Production Option Content Weights can be found in the charts under Actual Regular Production Option Content Weights



2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Axle Weight

The total weight placed on each axle of the vehicle (front and rear).



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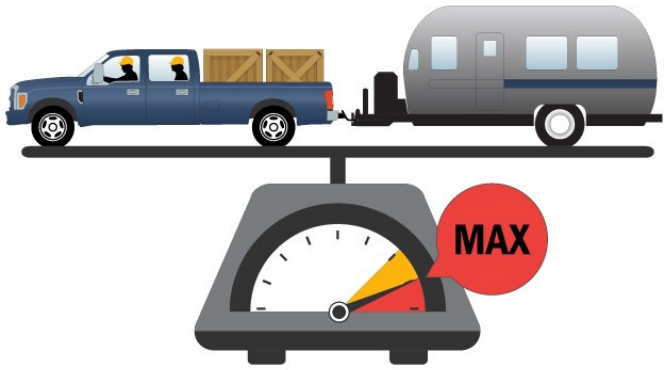
Gross vehicle weight plus the trailer weight.

2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Gross Combination Weight Rating (GCWR)

The maximum allowable weight of the towing vehicle, the trailer and all associated passengers, cargo and equipment.

The point to remember is that the actual weights should never exceed the listed weight ratings. If recommended weight ratings are exceeded, the vehicle could be disqualified for warranty coverage.



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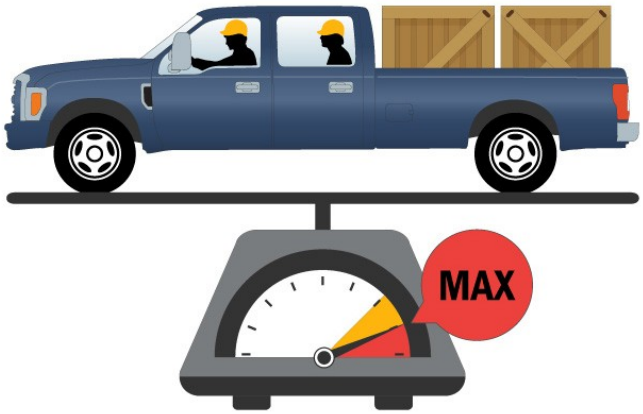
Gross Vehicle Weight Rating (GVWR)

The maximum allowable weight of the fully loaded vehicle (including passengers and cargo).



2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Maximum Payload Weight Rating

This is the advertised payload rating. It is the maximum allowable payload for the truck, including driver, passengers, optional and aftermarket equipment, and cargo. The weight of the engine and its standard transmission is already factored into the Maximum Payload Weight Rating. If the engine is also available with an optional transmission, that engine/transmission weight can be found in the Actual Regular Production Option Content Weight charts. Max. payload varies and is based on accessories and vehicle configuration. See label on doorjamb for carrying capacity of a specific vehicle.

Vehicle Payload Calculation	Front/Total (lbs.)
Maximum Payload Weight Rating[1]	____ /____
Less Total Actual Regular Production Option Content Weight	____ /____

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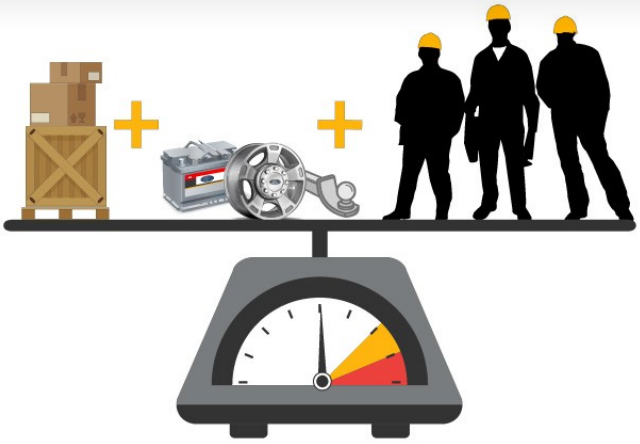
The Payload Weight Ratings and the Maximum Option Weight/Maximum Total Accessory Reserve Capacity (ARC) Weight Charts[1] are published and can be found in the weight ratings pages of the individual vehicle sections. This information is grouped together with other model, engine/transmission and maximum gross vehicle weight rating (GVWR) data for ease of use.

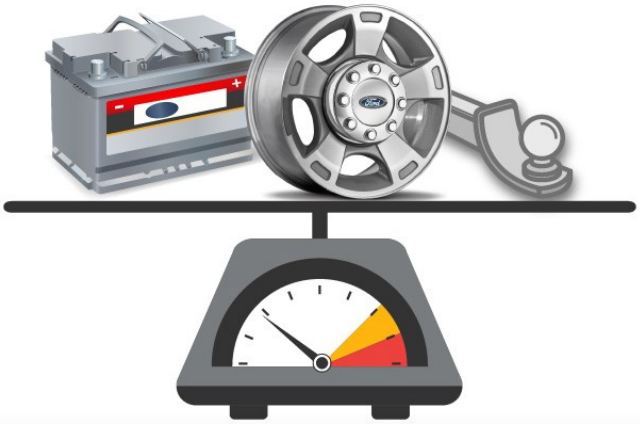


(1) OPT/ARC Weight is the maximum allowable weight for regular production options (OPT) and aftermarket equipment. Accessory Reserve Capacity (ARC) for models with standard equipment and the engine/transmission combination indicated.

2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Option Weights

The weight of any added equipment that is not included in the base curb weight.



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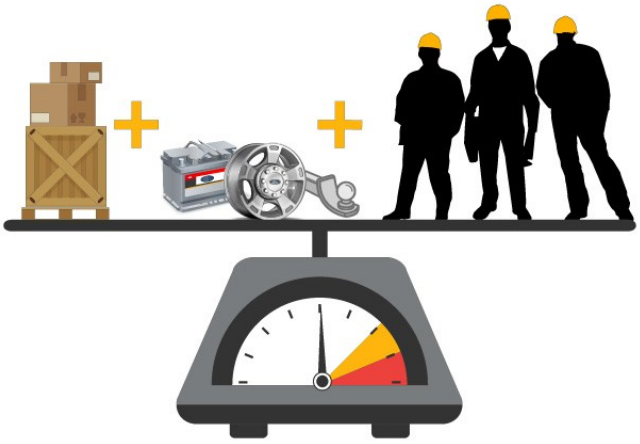
Defined as 150 lbs. multiplied by the number of safety-belted seating positions, including the driver, that the vehicle can carry.

2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Payload

- Maximum payload is defined as the weight of all passengers, optional and aftermarket equipment, and cargo
- Net payload is defined as the weight that can be placed in the truck after subtracting for driver, passengers, and optional and aftermarket equipment



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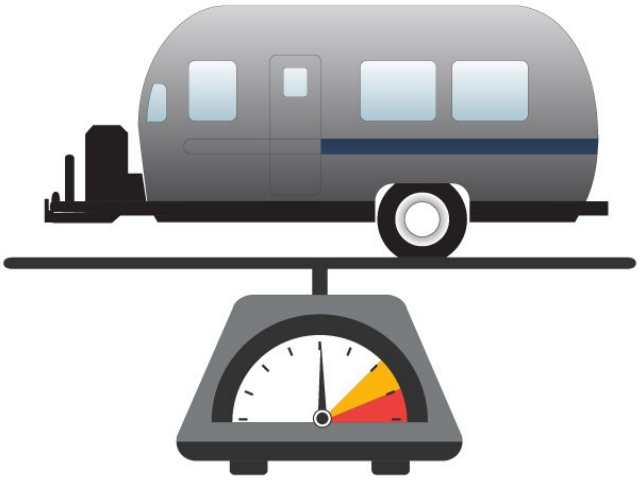
Trailer Weight

The weight of a fully loaded trailer, including all attachments, lights, etc.



2023 F-150 Lightning > **Specs** > **Dimensions/Weights/Capacities** > General Truck Payload Information

Truck “Nominal Tonnage”

“Nominal Tonnage” is a term that Ford and other manufacturers have historically used to **generally categorize** the load capacity of a vehicle series; it is not a term defined by federal or state law.

Our COV (Certificate of Origin for a Vehicle) includes each particular vehicle’s shipping weight, as well as the vehicle’s gross vehicle weight rating or GVWR (from which one can determine the particular vehicle’s rated carrying capacity, including driver, passengers, fluids, body upfit [if applicable] and aftermarket accessories). The COV also includes the vehicle’s “Nominal Tonnage.”

“Nominal Tonnage” provides the **general** usable cargo capability that most (but not all) of the vehicles with the designated nominal tonnage can expect to handle. That is, nominal tonnage states the general load capacity for each vehicle series, although particular vehicles may have a higher (or in some circumstances, lower) load capacity based on the specifications of the particular vehicle.

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Weight Class	GVWR Range (lbs.)	Vehicle/Model
1	Up to 6,000	Transit Connect Cargo Van (5,110–5,302 lbs.) Transit Connect Passenger Wagon (5,302–5,420 lbs.)
2	6,001 to 10,000	Ranger (6,050 lbs.) Transit-150 Cargo Van/Passenger Van (8,670/8,550 lbs.) Transit-250 Cargo Van/Crew Van (9,070 lbs.) Transit-350 Cargo Van/Crew Van (9,250–9,950 lbs.) Transit-350 Passenger Van (9,250–9,550 lbs.) Transit-250 Cutaway/Chassis Cabs (9,070 lbs.) Transit-350 Cutaway/Chassis Cabs (9,500 and 9,950 lbs.) E-Transit T350 Cargo Van, Chassis Cab and Cutaway (9,500 lbs.) F-150 (6,070–7,850 lbs.) F-250 Pickup (9,900–10,000 lbs.) F-350 Pickup (10,000 lbs.) F-350 Chassis Cab SRW (9,800–10,000 lbs.)
3	10,001 to 14,000	E-350 Cutaway (10,050–12,500 lbs.) E-350 Stripped Chassis (11,500–12,500 lbs.) Transit-350 Cargo Van/Crew Van/Passenger Van (10,360 lbs.; 11,000 lbs. [Cargo Van only]) Transit-350 Cutaway/Chassis Cab (10,360 and 11,000 lbs.) F-250 Pickup (10,400–10,800 lbs.) F-350 SRW Pickup (10,100–12,400 lbs.) F-350 DRW Pickup (13,000[1]–14,000 lbs.) F-350 Chassis Cab SRW (10,500–11,500 lbs.) F-350 DRW Chassis Cab (14,000 lbs.) E-450 Cutaway (14,000 lbs.) E-450 Stripped Chassis (14,000 lbs.) F-450 Pickup (14,000 lbs.)
4	14,001 to 16,000	E-450 Cutaway (14,200–14,500 lbs.) E-450 Stripped Chassis (14,200–14,500 lbs.) F-450 Chassis (15,000–16,000 lbs.) F59 Commercial Stripped Chassis (16,000 lbs.) F53 Motorhome Chassis (16,000 lbs.)
5	16,001 to 19,500	F-450 Chassis Cab (16,500 lbs.) F-550 (17,500–19,500 lbs.) F59 Commercial Stripped Chassis (19,500 lbs.) F53 Motorhome Chassis (18,000 lbs.)
6	19,501 to 26,000	F-600 (22,000 lbs.) F-650 Gasoline (22,000–26,000 lbs.)/Diesel (22,000–26,000 lbs.) F59 Commercial Stripped Chassis (22,000 lbs.) F53 Motorhome Chassis (20,500–26,000 lbs.)

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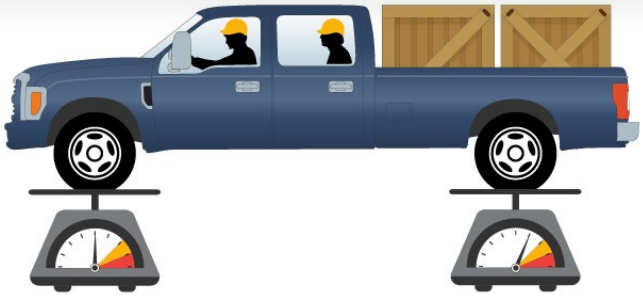
That portion of a vehicle's total weight that will be supported by each axle and each tire. Proper distribution of vehicle weight is critical to braking, handling and to the service life of components such as axles, springs, bearings and tires.



2023 F-150 Lightning > Specs > Dimensions/Weights/Capacities

Weight Ratings

Cab Style/Drive/ WB (in.)	Battery	Max. GVWR (lbs.)	Max. Payload (lbs.)(1)	Max. Total ARC Weight (lbs.)(2)	Max. GAWR (lbs.)(3)		Base Curb Weight (lbs.)		
					Front	Rear	Front	Rear	Total
SuperCrew 4x4 145.5	Standard-range	8,250	2,235	TBA	3,770	4,900	3,129	2,886	6,015
	Extended-range (with 18" wheels)	8,550	TBA	TBA	3,940	4,950	3,259	3,108	6,361
	Extended-range (Platinum)	8,550	1,657	TBA	4,050	4,800	3,461	3,432	6,893

(1) Load rating represents maximum allowable weight of people, cargo and body equipment and is reduced by available equipment weight. See label on doorjamb for carrying capacity of a specific vehicle.

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Drive Unit	Type	Electric
	Axle	Front/Rear
AXLES:		
Front Axle	Type	Long-spindle, double-wishbone, coil-over-shock IFS
	Gross Axle Weight Rating (GAWR) (lbs.)	3,770-4,050
Rear Axle	Type	Semi-floating
	Gross Axle Weight Rating (GAWR) (lbs.)	4,800-4,950
BRAKES:		
Front/Rear Disc	Type	Vented with Nitro Tough Iron, twin-piston front and single-piston rear caliper
	Rotor Diameter — Front/Rear	13.8"/13.7" 350 mm/336 mm
Anti-Lock Brake System		4-wheel regenerative braking (4-channel with electronic brakeforce dstribution)
Parking Brake		Electric (rear)
JACK:	Capacity	TBA
STEERING:	Type	Power, rack-and-pinion; electric power-assist
	Ratio	17.4:1
SUSPENSION:		
Frame	Type	Fully boxed, modular high-strength steel with 4 crossmembers that are welded on both sides
	Section Modulus (cu. in.)	See frame specifications
Springs, Front	Type	Coil, computer selected
Springs, Rear	Type	Coil, computer selected
Shock Absorbers	Gas-Pressurized Monotube — Front/Rear	1.1"/1.1" 28 mm/28mm
Stabilizer Bar	Position/Diameter/Type	Front: 25.4 mm/hollow Rear: 25.4 mm/hollow

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Drivetrain layout	Dual eMotor, front/rear transverse-mounted, four-wheel drive

(1) Calculated via peak performance of the electric motor(s) at peak battery power. Your results may vary. Based on manufacturer testing using computer engineering simulations.

2023 F-150 Lightning > Specs

Chassis

Brake System Specifications
Front Axle Specifications
Spring Specifications — Front Coil
Spring Specifications — Rear Coil
Tire Specifications
Wheel Specifications

2023 F-150 Lightning > Specs > Chassis

Front Axle Specifications

Series/Model		F-150 Lightning 4x4
Type		Long-spindle, double-wishbone, coil-over-shock independent front suspension
Gross Axle Weight Rating (GAWR) (lbs.)		3,770-4,050
Upper Control Arm	Material	Stamped steel
Lower Control Arm	Material	Stamped steel
Spring	Type	Coil-over-shock, computer selected
Ball Joints		Lubed-for-life
Spindle	Material	Cast-aluminum body with forged steel stem
Wheel Bearings	Type	Self-retained tapered roller (GEN II cartridge)

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Rotor Size (dia. x thickness) (mm)	350 x 24
Caliper Description	Sliding-caliper, single-piston with electric integrated parking brake (eIPB)
Caliper Piston Dia. (mm)	54
Swept Area (sq. mm)	42,997
Electric Parking Brake Rating (kN)	25.5

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 Lightning > Specs > Chassis

Spring Specifications — Front Coil

Model	Combined FGAWR Rating (lbs.)	Curb Height of Spring (in.)	Inside Dia. (in.)	Wire Dia. (in.)	Spring Rate (lbs./in. ea.)
Pro	3,900	12.76	Top: 3.78 in Bottom: 2.75 in	0.73	543
XLT		12.67		0.73	543
LARIAT		12.67		0.73	543
Platinum		12.71		0.75	600

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 Lightning > Specs > Chassis

Spring Specifications — Rear Coil

Model	Combined RGAWR Rating (lbs.)	Curb Height of Spring (in.)	Inside Dia. (in.)	Wire Dia. (in.)	Spring Rate (lbs./in. ea.)

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275/50R22 111T A/S	8.5	10.90	19.98

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2023 F-150 Lightning > Specs > Chassis

Wheel Specifications

Wheel Type	Wheel Size (in.)	Inset (in./mm)	No. of Studs	Bolt Circle (in./mm)	Maximum Wheel Capacity Load Front/Rear (lbs.)
18" machined aluminum with high gloss black-painted pockets (643)	18 x 8.5	1.73/44	6	5.3/135	2,025/2,249
20" Dark Carbonized Gray-painted aluminum (645)	20 x 8.5	1.73/44	6	5.3/135	2,025/2,249
22" bright-machined aluminum with Ebony Black-painted pockets (647)	22 x 8.5	1.73/44	6	5.3/135	1,950/2,166

NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 Lightning > Specs

Electrical

Standard Lighting/Reflector Equipment

Trailer Towing Wiring Harness

2023 F-150 Lightning > Specs > Electrical

Standard Lighting/Reflector Equipment

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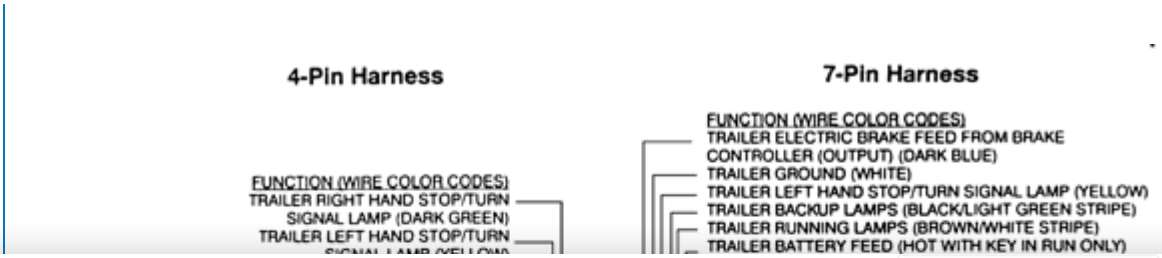
NOTE: Specifications and descriptions contained within are based upon the most current information available at the time of release. Content subject to change.

2023 F-150 Lightning > Specs > Electrical

Trailer Towing Wiring Harness

Circuit Number	Circuit Description	Color Code
RAT08	Ground	White
CAT17	Parking Lamps	Brown
CAT14	Trailer Battery Feed	Orange
CAT19	To Electric Brakes	Dark Blue
CAT09	RH Turn Signal and Stop Lamps	Dark Green
CAT06	LH Turn Signal and Stop Lamps	Yellow
CAT03/CAT16	Trailer Backup Lamps	Gray with Brown Stripe
CBP30	Front Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Blue Stripe
CBP40	Rear Brake Controller Running Lamp Feed/Park Lamp Feed	Yellow with Green Stripe
CLS30	Brake Controller Running Lamp Feed/Park Lamp Feed	Violet with White Stripe
CCB08	Vehicle Stop Lamps	Violet with White Stripe
SBB18/SBB17	B+ to Electric Brake Controller	Yellow with Red Stripe


4-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER RIGHT HAND STOP/TURN
SIGNAL LAMP (DARK GREEN)
TRAILER LEFT HAND STOP/TURN
7-Pin Harness
FUNCTION (WIRE COLOR CODES)
TRAILER ELECTRIC BRAKE FEED FROM BRAKE
CONTROLLER (OUTPUT) (DARK BLUE)
TRAILER GROUND (WHITE)
TRAILER LEFT HAND STOP/TURN SIGNAL LAMP (YELLOW)
TRAILER BACKUP LAMPS (BLACK/LIGHT GREEN STRIPE)
TRAILER RUNNING LAMPS (BROWN/WHITE STRIPE)
TRAILER BATTERY FEED (HOT WITH KEY IN RUN ONLY)

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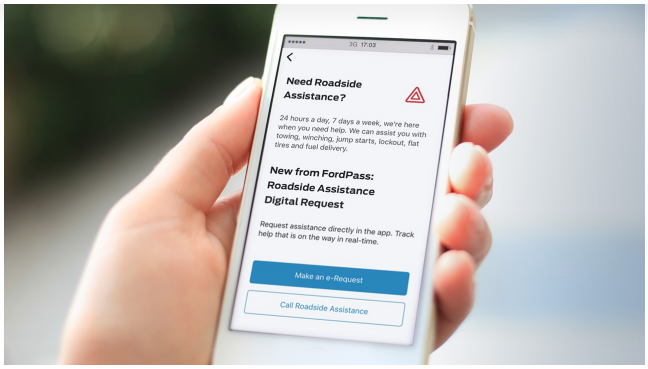
- FordPass[2] App key functionality
  - Tap the Service symbol on the bottom menu
  - Tap on 24/7 Assistance to make a request
  - Follow the prompts, which allow owners to identify the type of service they need
  - Owners can follow real-time progress of their request on the FordPass map
- Services available include flat tire change, towing to the nearest Ford dealership, fuel delivery, jump start and lockout assistance
- The FordPass App also offers a link to Accident Assistance under Vehicle Details/Vehicle Support
  - Accident Assistance includes information on what to do in an accident and about collision repairs
  - It also provides a collision shop locator that identifies the nearest Ford Certified Collision Center
- Services available include towing and lockout assistance
  - In the event of a breakdown or "out-of-charge," US F-150 Lightning Roadside customers can choose from 3 different locations to be towed to within 35 miles of the vehicle breakdown location:
    - EV Certified Dealer
    - Nearest public charger (out-of-charge use case)
    - Their home residence (out-of-charge use case)
  - Restrictions:
    - If the customer is over 35 miles from any of the above approved locations, Ford Roadside will tow the vehicle to the nearest location outside of the 35 miles at no charge to the customer
    - The customer is only charged if they choose to be towed to a location that is over 35 miles from their breakdown location AND there are approved locations within 35 miles
    - F-150 Lightning requires a flatbed tow vehicle (all 4 wheels off the ground) to prevent damaging the drivetrain


Need Roadside Assistance?
24 hours a day, 7 days a week, we're here when you need help. We can assist you with towing, winching, jump starts, lockout, flat tires and fuel delivery.
New from FordPass: Roadside Assistance Digital Request
Request assistance directly in the app. Track help that is on the way in real-time.
Make an e-Request
Call Roadside Assistance

POWERTRAIN LIMITED WARRANTY

- Powertrain Limited Warranty for Ford vehicles is 5 years or 60,000 miles, whichever comes first
- That's an additional 2 years/24,000 miles (whichever comes first) of coverage beyond the bumper-to-bumper coverage for components such as the engine, transmission and front- or rear-wheel-drive parts

NEW VEHICLE LIMITED WARRANTIES

- 3-year/36,000-mile (whichever comes first) bumper-to-bumper; no deductible
- 5-year/60,000-mile (whichever comes first) Powertrain Limited Warranty
- 5-year/unlimited mileage (whichever comes first) Corrosion

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